HR31 Projec	t M	lan	าลฐ	eme	nt '	Tra	ini	ng											
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Non-Project Managers						าสลา	·d (1	Mav	199	5)									
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Construction Ma	na	ge	mge	ent	ar	1 a .	Ŀn	gii	iee	rır									
		F = FamiliarityW=Working E=Expert D=Demonstrated Abili	Project Management Overview (Includes PMC11 Train-Trai								PMMS1 Budgeting & Accountiing for DOE Program/Project Manage								
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		De	E.	ent							am			u			Acquisition Management for Technical Personnel	Performance Based Management Contracting	
		ď	des	Best Practices in DOE Project Management		sis				Ħ	igo.			Program Execution, Control, & Evaluation	ac		al P	trac	
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	Level Required:	ity	age	es i	Project Planning	qn	cuti	Sosi	gine	Aı	2 A	ınaş	Program Planning	ecn	ana	θO	Ma	B	\ss(
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			10	PMMS5	PMMS1	PMMS2 Cost & Schedule Estimation & Analysis	PMMS3 Project Execution	PMCE01 Life Cycle Cost Estimating	PMCE02 Systems Engineering	PMCE03 Project Risk Analysis and Management	S	PGM01	02	05	PGM06	7	S	PSIN28	PSIN29
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Required Competencies:			Ā	E E	Ы	Ы	Ы	딥	F	Ā	Ā	Ъ(Ы	Ъ(Ъ	PI	PF	ΡS	PS
2.2 Working level knowledge of DOE Order 4700.1, Project																			
Management System as it applies to DOE construction projects 2.2a. Discuss the purpose, scope, and application of DOE Order			F	F	W	W	W				F	F		F		F	F	F	F
4700.1, Project Management System. Include in this			Г	Г	VV	VV	VV				Г	Г		Г		Г	Г	г	Г
discussion the key terms, essential elements, and personnel																			
responsibilities and authorities																			
2.2b. Discuss the project management terminology for which			F	F	W	W	W				F	F		F	F	F	F	F	F
definitions are provided in DOE Order 4700.1,																			
Project Management System																			
2.2c. Discuss the responsibilities of the following positions in the			F	F	F	F	F									F	F	F	
management of a construction project: contracting officer,																			-
project manager, construction engineer, architect-engineer, construction contractor, construction manager,																			
operating contractor																			
2.2d. Discuss the purpose of "critical decisions". Include in the		1	F	F	W	W	W	F	F	F	F				F				F
discussion the responsible authorities for critical decision				i	· ·			Ė							İ				İ
2.2e. Support the preparation of a project execution plan for a													F						
construction project using the guidance provided in DOE Order																			
4700.1, Project Management System																			
2.2f. Discuss the requirements that must be met to make a change to a		-	F	F	F	F	F	F	F	F	F							F	F
project execution plan.		-	_	_	۱۸,	147	۱۸,	_		_									
2.2g. Discuss the following types of cost estimates used during the life		-	F	F	W	W	W	F		F									
of a construction project: planning estimate, budget estimate, Title I design estimates, Title II estimates, government		+																	
estimates, current working estimates, independent cost estimate		+																	
2.2h. Discuss the purpose and application of the Project		1	F	F			F									F		F	
The same that the same and sam			· -	1.			1.	1		1	1					1.	1	_	

Authorization System to construction projects																	
2.2i. Describe the aids used to control construction activities	F	F	F	F	F		F							F	F	F	
2.2j. Discuss the documents that should be maintained in the	F	F			F									F			
construction project record																	
2.2k. Discuss the content, requirements, and application of Title I and																	
Title II Design Summaries to construction projects																	
2.2l. Discuss the graded approach to each of the following elements	F	F	W	W	W	F	F	W	F					F	F	F	F
of project baseline development: technical baseline and work																	
scope development, roles and responsibilities, cost estimating,																	
planning and scheduling baseline, cost baseline																	1
The state of the s																	1
4.1 Working level knowledge of project management principles and the																	1
methods used to ensure that contractor resources are applied to																	1
meet quality, safety, technical, cost, and schedule estimates																	1
4.1 Familiarity level knowledge of project management practices																	_
sufficient to manage training-related programs and projects																	+
4.1a. Explain the purpose of project management and describe the life	F	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F
cycle of a typical project	•	ļ.	+	-	ļ'	'		<u>'</u>	<u>'</u>		ļ.	-	'		'		<u> </u>
4.1b. Describe the primary roles and responsibilities of																	+
instrumentation and control personnel as outlined in DOE Order																	+
4700.1, Project Management System																	+
4.1c. Describe typical documents and data sources used in project		-	+		+				+		-						-
management		-	+		+				+		-						-
	F	F	F	F	F	F	F	F	F					-	-		F
4.1d. Identify, explain, and discuss the relationship of the major elements of a project	г	Г	Г	Г	Г	Г	Г	Г	Г					-			Г
	F	F	F	F	F									-		F	F
4.1e. Explain the purpose and use of a Project Execution Plan	F	F	F	F	F		F		-					-		F	-
4.1f. Discuss the five elements of the DOE program for operational	۲	F	F	F	F	-	F							-	-		-
configuration management as described in DOE-STD-1073-93,									-					-			-
Guide for Operational Configuration Management Program			-		-												1
(design requirements, document control, program management,																	_
change control					<u> </u>					_							1
4.1g. Explain the use of safety plans in the management of projects	F	F	F	_	F	_		-	_	F	F			_	_	_	<u> </u>
4.1h. Discuss the relationship between work breakdown structure	F	F	F	F	F	F	F	F	F	F				F	F	F	F
(WBS) and cost and schedule														_			<u> </u>
4.1i. Describe the purpose and use of work packages and/or planning	F	F	W	F	W									F		F	
packages																	
4.1j. Describe the purpose and use of schedules and discuss the use o	F	F	F	F	F		F			F	W	F	F				
milestones and activities																	
4.1k. Describe the critical path method of scheduling	F	F		W	F					F	F	F	F				
4.1l. Explain the concept of a project management baseline and	F	F	W	W	W	F	F	F	F					F	F	F	F
describe the baseline used in project management																	
4.1m. Discuss the following elements of construction project contract	F		F	F	F												
labor: availability of labor skills, interaction of labor crafts,																	
standby requirements and their impact on the schedule, craft																	
jurisdiction, union vs. non-union, skills and labor rates																	
4.1n. Describe how performance and productivity rates	F	F			F									F			F
are established																	
4.1o. Discuss the use of resource loaded, time-based, CPM schedule	F	F	F	F	F												F
for the day-to-day control of a project and its importance			1		1												
in meeting cost and schedule baseline																	
g		1	1		1						1						
4.4 Ability to perform project management duties in providing			1		1												1
construction management and engineering support to a project		+	1		1	1					+		1	1	1		+-
4.5a. Ensure that cost, schedule, and scope requirements are met	F	F	F	F	F	F	F	F	F		+			F	F	F	F
4.5b. Act as principal contact and liaison for the exchange of	•	+	+	<u> </u>	F	+	•	1			+			F	F		+
information between the contractor and the Department		+	+	1	+	+	1	1	+		+	+	+	1	+	-	+

4.5c. Ensure that instructions to the contractor are within the terms						F					F	F		
of the contract														
4.5d. Ensure compliance by the contractor with the technical, safety,		F	F	F	F	F	F				F	F	F	F
and administrative requirements of the contract														
4.5e. Participate in the formulation and approval of plans and														
schedules														
4.5f. Arrange for contacts between the construction contractor, other											F			
participants, and appropriate staff as required														